National Institute of Environmental Health Sciences

Impact of global climate change on regional air quality: Introduction to the thematic issue

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Abstract:

Despite the major international efforts devoted to the understanding and to the future estimate of global climate change and its impact on regional scale processes, the evolution of the atmospheric composition in a changing climate is far to be understood. In particular, the future evolution of the concentration of near-surface pollutants determining air quality at a scale affecting human health and ecosystems is a subject of intense scientific research. This thematic issue reviews the current scientific knowledge of the consequences of global climate change on regional air quality and its related impact on the biosphere and on human mortality. This article provides a presentation of the key issues, summarizes the current knowledge, and introduces the thematic issue.

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Resource Description

Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Temperature

Air Pollution: Ozone, Particulate Matter, Other Air Pollution

Air Pollution (other): NOx;SO2;VOC

Temperature: Fluctuations

Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

Geographic Location:

resource focuses on specific location

Global or Unspecified

Health Impact:

specification of health effect or disease related to climate change exposure

Health Outcome Unspecified

Resource Type:

format or standard characteristic of resource

Review

Timescale:

time period studied

Time Scale Unspecified